

INTERNATIONAL STANDARD

NORME INTERNATIONALE

**Video surveillance systems for use in security applications –
Part 5-1: Data specifications and image quality performance for camera devices –
Environmental test methods for image quality performance**

**Systèmes de vidéosurveillance destinés à être utilisés dans les applications de
sécurité –
Partie 5-1: Spécifications des données et performances de la qualité d'image
pour les dispositifs de caméra – Méthodes d'essai d'environnement pour les
performances de la qualité d'image**



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CONTENTS

FOREWORD.....	3
INTRODUCTION.....	5
1 Scope.....	6
2 Normative references	6
3 Terms, definitions and abbreviated terms	6
3.1 Terms and definitions.....	6
3.2 Abbreviated terms.....	7
4 Test environment.....	7
4.1 Overview.....	7
4.2 Test environment configuration	7
4.3 Measurement environment.....	7
5 Test.....	8
5.1 General test conditions	8
5.2 General standard photographing conditions	8
5.2.1 Lighting conditions.....	8
5.2.2 Field angle.....	9
5.2.3 Lens iris.....	9
5.2.4 Standard camera settings	9
5.3 Image quality	9
5.3.1 Resolution	9
5.3.2 Results of resolution	10
5.4 Environmental test method.....	10
5.4.1 Testing conditions	10
5.4.2 High temperature operation test.....	11
5.4.3 Low temperature operation test	12
5.4.4 High temperature and high humidity operation test	13
5.4.5 Performance recovery	14
5.4.6 Reporting of test results.....	14
5.5 Specification indication	14
Annex A (normative) How to measure the sight glass illuminance attenuation rate.....	15
Bibliography.....	16
Figure 1 – Example of measurement environment.....	8
Figure 2 – Profile of the high temperature operation test.....	11
Figure 3 – Profile of the low temperature operation test	12
Figure 4 – Example of the high temperature high humidity operation test.....	13
Figure A.1 – Schematic diagram: Glass sight illuminance attenuation measurement	15
Table 1 – Camera settings for resolution.....	9

INTERNATIONAL ELECTROTECHNICAL COMMISSION

**VIDEO SURVEILLANCE SYSTEMS FOR USE –
IN SECURITY APPLICATIONS –****Part 5-1: Data specifications and image quality performance for camera
devices – Environmental test methods for image quality performance**

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IEC 62676-5-1 has been prepared by IEC technical committee 79: Alarm and electronic security systems. It is an International Standard.

This International Standard is to be used in conjunction with IEC 62676-5:2018.

The text of this International Standard is based on the following documents:

Draft	Report on voting
79/704/FDIS	79/709/RVD

Full information on the voting for its approval can be found in the report on voting indicated in the above table.

The language used for the development of this International Standard is English.

This document was drafted in accordance with ISO/IEC Directives, Part 2, and developed in accordance with ISO/IEC Directives, Part 1 and ISO/IEC Directives, IEC Supplement, available at www.iec.ch/members_experts/refdocs. The main document types developed by IEC are described in greater detail at www.iec.ch/publications.

A list of all parts in the IEC 62676 series, published under the general title *Video surveillance systems for use in security applications*, can be found on the IEC website.

The committee has decided that the contents of this document will remain unchanged until the stability date indicated on the IEC website under webstore.iec.ch in the data related to the specific document. At this date, the document will be

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INTRODUCTION

The goal of this document is to define the performance test methods for image quality, a feature of video surveillance systems which is subject to change depending on the environmental conditions (temperature and humidity).

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VIDEO SURVEILLANCE SYSTEMS FOR USE – IN SECURITY APPLICATIONS –

Part 5-1: Data specifications and image quality performance for camera devices – Environmental test methods for image quality performance

1 Scope

This part of IEC 62676 is an extension of IEC 62676-5 which defines measuring methods for performance values of video surveillance camera equipment and defines image quality tests under the given temperature and humidity environment.

This document is mainly targeting cameras with integrated lenses as the lenses are a major component that can impact the results. If the lens is selectable, the lens will be stated together with the results.

2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

IEC 60068-2-1:2007, *Environmental testing – Part 2-1: Tests – Test A: Cold*

IEC 60068-2-2:2007, *Environmental testing – Part 2-2: Tests – Test B: Dry heat*

IEC 62676-5:2018, *Video surveillance systems for use in security applications – Part 5: Data specifications and image quality performance for camera devices*

3 Terms, definitions and abbreviated terms

3.1 Terms and definitions

For the purposes of this document, the following terms and definitions apply.

ISO and IEC maintain terminology databases for use in standardization at the following addresses:

- IEC Electropedia: available at <https://www.electropedia.org/>
- ISO Online browsing platform: available at <https://www.iso.org/obp>

3.1.1

colour temperature

numerical value used to indicate the chromaticity of a light source that has a spectral distribution of (or close to) the radiation generated when heat is applied to a blackbody radiator

3.1.2

gain

camera's function to amplify the electronic signal